## **WEST Search History**

Hide Items Restore Clear Cancel

DATE: Thursday, July 07, 2005

Hide?	<u>Set</u> <u>Name</u>	Query	<u>Hit</u> Count
	DB=P	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=ADJ	
	L15	20020180439	2
	L14	L13 and (butterfly)	3
	L13	L12 and (mode)	11
	L12	L10 and ((flat or planar\$2 or flaten\$3 or local or surface) with ((array or plurality or group or "set" or "subset" or "sub-set" or multiple or "multi") with (coil or strip or conductor)))	14
	L11	L10 and (flat or planar\$2 or flaten\$3 or local or surface)	107
	L10	L9 and (capacitance or impedance or transformer or capacit\$3 or induct\$4)	107
	L9	L8 and (gradient)	107
	L8	L7 and (amplitude or phase or shape or waveform or wave-form or "wave form" or rectangle or rectangular\$3 or length or "wave length" or wavelength or "wave-length")	125
	L7	L6 and (decoupl\$4 or de-coupl\$4)	125
	L6	L5 and ((separate or independent\$3 or individual\$2 or respectiv\$3 or "each") with (channel or port))	214
	L5	L4 and (board or plate or "PVC" or substrate)	904
	L4	L3 and (loop or butterfly or "figure-eight" or "figure-8" or "figure eight")	1368
	L3	L2 and ((array or plurality or group or "set" or "subset" or "sub-set" or multiple or "multi") with (coil or strip or conductor))	3192
	·L2	L1 and (open)	43677
	L1	((Magnetic adj resonance) or MRI or NMR)	206572

END OF SEARCH HISTORY

## Hit List

Clear Generate:Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 20050149169 A1

L12: Entry 1 of 14 File: PGPB Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050149169

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050149169 A1

TITLE: Implantable medical device

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Wang, Xingwu Wellsville NY US Greenwald, Howard J. Rochester NY US

US-CL-CURRENT: 623/1.15

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWAC Draw Do

☐ 2. Document ID: US 20050149002 A1

L12: Entry 2 of 14 File: PGPB Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050149002

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050149002 A1

TITLE: Markers for visualizing interventional medical devices

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Wang, Xingwu Wellsville NY US Shellock, Frank G. Los Angeles CA US

US-CL-CURRENT: 606/1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims DWC Draw D

☐ 3. Document ID: US 20030107376 A1

L12: Entry 3 of 14

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030107376

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030107376 A1

TITLE: Magnetic resonance imaging apparatus

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Yasuhara, Yasutake

Nasu-gun

JP

US-CL-CURRENT: 324/318; 324/320, 324/321

Full Title Citation	Front Review Class	fication Date Reference	e Sequences Attach	iments Claims (1990) Diave D

☐ 4. Document ID: US 20020045816 A1

L12: Entry 4 of 14

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020045816

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020045816 A1

TITLE: Apparatus, systems, and methods for in vivo magnetic resonance imaging

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Atalar, Ergin	Columbia	MD	US	
Bottomley, Paul A.	Columbia	MD	US	
Karmarkar, Parag	Elliott City	MD	US	
Lardo, Albert C.	Baldwin	MD	US	
Zerhouni, Elias	Pasadena	MD	US	

US-CL-CURRENT: 600/423; 324/318

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☐ 5. Document ID: US 20010022515 A1

L12: Entry 5 of 14

File: PGPB

Sep 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010022515

PGPUB-FILING-TYPE: new

Record List Display Page 3 of 7

DOCUMENT-IDENTIFIER: US 20010022515 A1

TITLE: Magnetic resonance imaging apparatus

PUBLICATION-DATE: September 20, 2001

INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Otawara-shi	′	JP	
Otawara-shi		JP	
Nasu-gun		JP	
Otawara-shi		JP	
Nasu-gun		JP	
Otawara-shi		JP	
Nasu-gun		JP	
Nasu-gun		JP	
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US-CL-CURRENT: 324/300

Full Title Citation Front Review Class	nication Cate Reference Sequerices Affac	liments Claims 1000 Draw De
		······
☐ 6. Document ID: US 677107	0 B2	
L12: Entry 6 of 14	File: USPT	Aug 3, 2004

US-PAT-NO: 6771070

DOCUMENT-IDENTIFIER: US 6771070 B2

TITLE: Apparatus for magnetic resonance imaging having a planar strip array antenna including systems and methods related thereto

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME STATE ZIP CODE COUNTRY CITY

Lee; Ray F Clifton-Park NY

US-CL-CURRENT: 324/318; 343/700MS

Full Title Citation Front Review Classificat	lizir   Cate   Reference	CAPTINE TRACE DUE OF U
☐ 7. Document ID: US 6628980 E		
L12: Entry 7 of 14	File: USPT	Sep 30, 2003

US-PAT-NO: 6628980

DOCUMENT-IDENTIFIER: US 6628980 B2

TITLE: Apparatus, systems, and methods for in vivo magnetic resonance imaging

Page 4 of 7 Record List Display

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

Zerhouni; Elias

ZIP CODE COUNTRY CITY STATE NAME

Pasadena

Atalar; Ergin Columbia MD MD Bottomley; Paul A. Columbia Karmarkar; Parag Elliott City MD Lardo; Albert C. Baldwin MD

US-CL-CURRENT: 600/423; 324/318

Full Title Citation Front Review Classification Date Reference □ 8. Document ID: US 6556012 B2

MD

L12: Entry 8 of 14

Apr 29, 2003 File: USPT

US-PAT-NO: 6556012

DOCUMENT-IDENTIFIER: US 6556012 B2

TITLE: Magnetic resonance imaging apparatus

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

STATE ZIP CODE CITY COUNTRY

Otawara JΡ Yamashita; Masatoshi

US-CL-CURRENT: 324/318; 324/307, 324/309

Claims Kowic branch-Full Title Citation Front Review Plassification Date Reference

☐ 9. Document ID: US 6150816 A

L12: Entry 9 of 14 File: USPT Nov 21, 2000

US-PAT-NO: 6150816

DOCUMENT-IDENTIFIER: US 6150816 A

TITLE: Radio-frequency coil array for resonance analysis

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

ZIP CODE COUNTRY STATE NAME

Srinivasan; Ravi Richmond Heights OH

US-CL-CURRENT: 324/318; 324/322

Page 5 of 7 Record List Display

Full: Title: Citation Front Review Classification: Qate: Reference: Claims (MC) Uraw U

☐ 10. Document ID: US 5999000 A

L12: Entry 10 of 14

File: USPT

Dec 7, 1999

US-PAT-NO: 5999000

DOCUMENT-IDENTIFIER: US 5999000 A

TITLE: Radio-frequency coil and method for resonance imaging/analysis

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME

OH Srinivasan; Ravi Richmond Heights

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference Clainis ROMC Draw De

☐ 11. Document ID: US 5777474 A

L12: Entry 11 of 14

File: USPT

Jul 7, 1998

US-PAT-NO: 5777474

DOCUMENT-IDENTIFIER: US 5777474 A

TITLE: Radio-frequency coil and method for resonance imaging/analysis

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME

Srinivasan; Ravi Richmond Heights OH

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Data Reference Claims KMC Draw Do

☐ 12. Document ID: US 5666055 A

File: USPT L12: Entry'12 of 14

Sep 9, 1997

US-PAT-NO: 5666055

DOCUMENT-IDENTIFIER: US 5666055 A

TITLE: Surface coil system for a single channel NMR receiver

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

COUNTRY STATE ZIP CODE NAME CITY

Jones; Randall W. Elkhorn NE 68022 68128 Davis; Fred LaVista NE

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference ☐ 13. Document ID: US 4866387 A

File: USPT

Sep 12, 1989

US-PAT-NO: 4866387

L12: Entry 13 of 14

DOCUMENT-IDENTIFIER: US 4866387 A

TITLE: NMR detector network

DATE-ISSUED: September 12, 1989

INVENTOR-INFORMATION:

ZIP CODE STATE COUNTRY NAME CITY

WΙ Hyde; James S. Dousman

PLFroncisz; Wojciech Krakow

Wauwatosa WI Jesmanowicz; Andrzej

Kneeland; J. Bruce Fox Point WI

US-CL-CURRENT: 324/318

Full Title Citation Front Review Classification Date Reference Claims KodC Draw De ☐ 14. Document ID: US 4721913 A L12: Entry 14 of 14 File: USPT Jan 26, 1988

US-PAT-NO: 4721913

DOCUMENT-IDENTIFIER: US 4721913 A

\*\* See image for Certificate of Correction \*\*

TITLE: NMR local coil network

DATE-ISSUED: January 26, 1988

INVENTOR-INFORMATION:

COUNTRY ZIP CODE CITY STATE NAME

Hyde; James S. Dousman WI

PLFroncisz; Wojciech Krakow

Jesmanowicz; Andrzej Wauwatosa WI Grist; Thomas M.

Milwaukee

WI

US-CL-CURRENT: 324/318; 333/219, 600/422

Гегт	Documents
FLAT	1890096
FLATS	42056
LOCAL	690843
LOCALS	555
SURFACE	7818924
SURFACES	2604084
ARRAY	752945
ARRAYS	217103
PLURALITY	3690554
PLURALITIES	24708
PLURALITYS	. 7
(L10 AND ((FLAT OR PLANAR\$2 OR FLATEN\$3 OR LOCAL OR SURFACE) WITH ((ARRAY OR PLURALITY OR GROUP OR "SET" OR "SUBSET" OR "SUB-SET" OR MULTIPLE OR 'MULTI") WITH (COIL OR STRIP OR CONDUCTOR)))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDB	14

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## **Hit List**

Fwd Refs Bkwd Refs Generate Collection Print Clear Generate OACS

Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20050149169 A1

L13: Entry 1 of 11 File: PGPB Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050149169

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050149169 A1

TITLE: Implantable medical device

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

CITY STATE COUNTRY RULE-47 NAME

US Wellsville NY Wang, Xingwu Greenwald, Howard J. Rochester NY US

US-CL-CURRENT: 623/1.15

Full Title Citation	Front Review Class	ification Date Refe	rence Sequences A	stachmenta Claima	KWWC Drawe De
		•••••			

☐ 2. Document ID: US 20050149002 A1

L13: Entry 2 of 11 File: PGPB Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050149002

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050149002 A1

TITLE: Markers for visualizing interventional medical devices

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

COUNTRY RULE-47 NAME CITY STATE

US Wellsville NY Wang, Xingwu Los Angeles CA US Shellock, Frank G.

US-CL-CURRENT: 606/1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Dialins Livic Draw Do

☐ 3. Document ID: US 20020045816 A1

L13: Entry 3 of 11

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020045816

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020045816 A1

TITLE: Apparatus, systems, and methods for in vivo magnetic resonance imaging

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Atalar, Ergin	Columbia	MD	US	
Bottomley, Paul A.	Columbia	MD	US	
Karmarkar, Parag	Elliott City	MD	US .	
Lardo, Albert C.	Baldwin	MD	US	
Zerhouni, Elias	Pasadena	MD	US	

US-CL-CURRENT: 600/423; 324/318

Full Title Citation Front Review Class	flication Date Reference Sequences Altisc	hments   Claims   KWC   Prave De
☐ 4. Document ID: US 677107	70 B2	-
L13: Entry 4 of 11	File: USPT	Aug 3, 2004

US-PAT-NO: 6771070

DOCUMENT-IDENTIFIER: US 6771070 B2

TITLE: Apparatus for magnetic resonance imaging having a planar strip array antenna including systems and methods related thereto

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Lee; Ray F

Clifton-Park

NY

US-CL-CURRENT: 324/318; 343/700MS

Full Title Citation Front Review Class	fication Date Reference	Claims Kolft Prace Pa
☐ 5. Document ID: US 662898	0 B2	
L13: Entry 5 of 11	File: USPT	Sep 30, 2003

US-PAT-NO: 6628980

DOCUMENT-IDENTIFIER: US 6628980 B2

Record List Display Page 3 of 6

TITLE: Apparatus, systems, and methods for in vivo magnetic resonance imaging

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Atalar; Ergin Columbia MD
Bottomley; Paul A. Columbia MD
Karmarkar; Parag Elliott City MD
Lardo; Albert C. Baldwin MD
Zerhouni; Elias Pasadena MD

US-CL-CURRENT: 600/423; 324/318

Full Title Citation Front Review Classification Date Reference Communication Date Communication Communication

☐ 6. Document ID: US 6150816 A

L13: Entry 6 of 11 File: USPT Nov 21, 2000

US-PAT-NO: 6150816

DOCUMENT-IDENTIFIER: US 6150816 A

TITLE: Radio-frequency coil array for resonance analysis

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Srinivasan; Ravi Richmond Heights OH

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Dr

☐ 7. Document ID: US 5999000 A

L13: Entry 7 of 11 File: USPT Dec 7, 1999

US-PAT-NO: 5999000

DOCUMENT-IDENTIFIER: US 5999000 A

TITLE: Radio-frequency coil and method for resonance imaging/analysis

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Srinivasan; Ravi Richmond Heights OH

Record List Display

US-CL-CURRENT: 324/318; 324/322

FOIL Tille Chation Front Review Classification Cate Reference Claims NMC Crew 0.

□ 8. Document ID: US 5777474 A

L13: Entry 8 of 11

File: USPT

Jul 7, 1998

US-PAT-NO: 5777474

DOCUMENT-IDENTIFIER: US 5777474 A

TITLE: Radio-frequency coil and method for resonance imaging/analysis

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Srinivasan; Ravi

Richmond Heights

OH

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference

GEIMS WILL USULU

☐ 9. Document ID: US 5666055 A

L13: Entry 9 of 11

File: USPT

Sep 9, 1997

US-PAT-NO: 5666055

DOCUMENT-IDENTIFIER: US 5666055 A

TITLE: Surface coil system for a single channel NMR receiver

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Jones; Randall W.

Elkhorn

NE

68022

Davis; Fred

LaVista

NE

68128

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference Claims Kidt Orays Or

☐ 10. Document ID: US 4866387 A

L13: Entry 10 of 11

File: USPT

Sep 12, 1989

US-PAT-NO: 4866387

DOCUMENT-IDENTIFIER: US 4866387 A

TITLE: NMR detector network

DATE-ISSUED: September 12, 1989

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hyde; James S. Dousman WI

Froncisz; Wojciech Krakow PL

Jesmanowicz; Andrzej Wauwatosa WI Kneeland; J. Bruce Fox Point WI

US-CL-CURRENT: 324/318

Full Title Citation	Front Review Classifi	cation Date Referen	6 <u>6</u>	Claims (WAC) Draw	
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☐ 11. Document ID: US 4721913 A

L13: Entry 11 of 11 File: USPT Jan 26, 1988

US-PAT-NO: 4721913

DOCUMENT-IDENTIFIER: US 4721913 A

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: NMR local coil network

DATE-ISSUED: January 26, 1988

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hyde; James S. Dousman WI

Froncisz; Wojciech Krakow PL

Jesmanowicz; Andrzej Wauwatosa WI Grist; Thomas M. Milwaukee WI

US-CL-CURRENT: 324/318; 333/219, 600/422

Full Title Citation Front Review Classification Date Reference	Claims Ki	ле р
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(L12 AND (MODE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11	

## Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6150816 A

L14: Entry 1 of 3

File: USPT

Nov 21, 2000

Sep 12, 1989

US-PAT-NO: 6150816

DOCUMENT-IDENTIFIER: US 6150816 A

TITLE: Radio-frequency coil array for resonance analysis

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME

CITY STATE ZIP CODE COUNTRY

Srinivasan; Ravi Richmond Heights OH

US-CL-CURRENT: 324/318; 324/322

This cartion from Review Classification (cate Reprende Classification)

2. Document ID: US 4866387 A

File: USPT

US-PAT-NO: 4866387

L14: Entry 2 of 3

DOCUMENT-IDENTIFIER: US 4866387 A

TITLE: NMR detector network

DATE-ISSUED: September 12, 1989

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hyde; James S. Dousman WI

Froncisz; Wojciech Krakow PL

Jesmanowicz; Andrzej Wauwatosa WI Kneeland; J. Bruce Fox Point WI

US-CL-CURRENT: 324/318

Full Title Citation Front Review Classification Date Reference Citation Claims KNAC Draw D.

☐ 3. Document ID: US 4721913 A

L14: Entry 3 of 3

File: USPT

Jan 26, 1988

US-PAT-NO: 4721913

DOCUMENT-IDENTIFIER: US 4721913 A

\*\* See image for Certificate of Correction \*\*

TITLE: NMR local coil network

DATE-ISSUED: January 26, 1988

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hyde; James S. Dousman WI

Froncisz; Wojciech Krakow PL

Jesmanowicz; Andrzej Wauwatosa WI Grist; Thomas M. Milwaukee WI

US-CL-CURRENT: 324/318; 333/219, 600/422

Title: Citation Front Review Classification Cate: Reference	EMIRE EMIRE
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Term	Documents
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BUTTERFLIES	1553
BUTTERFLYS	26
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(L13 AND (BUTTERFLY)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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